

ODFW AQUATIC INVENTORY PROJECT
OREGON PLAN FOR SALMON & WATERSHEDS
STREAM RESTORATION HABITAT REPORT

STREAM: Cruiser Creek Tributary (N-273)
BASIN: Trask River
SURVEY TYPE: Post-Tx
DATE: March 1, 2006
SURVEY CREW: Brian Cannon, Jon Nott
REPORT PREPARED BY: Paul Jacobsen
BASIN AREA: 3.6 km²
USGS MAPS: Gobblers Knob
ECOREGION: Coast Range Volcanic

GENERAL DESCRIPTION:

The Cruiser Creek Tributary habitat survey extended 960 meters. The channel was constrained by hillslopes in a moderate V-shaped valley. The average valley width index was 3.6 (range: 1.2-10.0). Land use for the reach was large (30-50 cm dbh) and second growth (15-30 cm dbh) trees. The average unit gradient was 3.8 percent. Riffles (31%) and rapids (29%) dominated stream habitat. Gravel (30%) and cobble (28%) dominated stream substrate. Wood volume was high at 31.5 m³/100m.

COMMENTS:

There were no potential barriers to upstream fish migration in the surveyed length.

The crew noted several habitat structures during the survey.

REACH 1

T02S-R06W-S06SW

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	0%	Constraining Terraces	0%
Moderate V-shape	100%	Multiple Terraces	0%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	3.6	VWI Range:	1.2 - 10

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	Braided Channel	0%
Alt. Terrace/Hill	0%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary Channel	960	4,540	0
Secondary Channel	62	148	1
Off-Channel Units	45	58	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 5	<u>First Terrace</u> n = 1
Width: 4.2	Width: 8.2	15.5 (5.6 - 27.5)	7.9 (7.9 - 7.9)
Depth: 0.34	Height: 0.6	1.2 (1.1 - 1.4)	1.5 (1.5 - 1.5)

W:D ratio: 13.3
 Stream Flow Type: MF
 Average Unit Gradient: 3.8%
 Water temperature (°C): 6.0 - 6.0

Entrenchment (ACW:FPW ratio): 1.9
 Habitat Units/100m (total channel length): 5.3
 Habitat Units/100m (primary channel length): 5.9

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	LT	ST
Riparian Vegetation:	D30	D15

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:		Reach avg:
Undercut Banks:		Range: -

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	199	20.7
Volume (m ³):	302	31.5
Key pieces (>=12m x 0.60m):	4	0.4

OREGON DEPT OF FISH AND WILDLIFE CRUISER CREEK TRIBUTARY POST-TX (1-NC, 273)

HABITAT INVENTORY

Report Date: 12/6/2006

Survey Date:

3/1/2006

REACH 1		T02S-R06W-S06SW					REACH 1					
HABITAT DETAIL												
Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
CASCADE/BEDROCK	2	51	4.9	0.23	252	0	0	8	10	20	15	48
CASCADE/BOULDERS	6	140	3.8	0.20	706	0	1	7	26	38	21	7
GLIDE	1	14	3.1	0.25	43	0	0	15	20	10	5	50
POOL-BACKWATER	2	12	1.6	0.30	18	0	5	25	30	38	3	0
POOL-ISOLATED	1	6	1.5	0.40	9	0	15	80	5	0	0	0
POOL-LATERAL SCOUR	12	125	4.2	0.61	544	0	0	30	32	23	2	12
POOL-PLUNGE	4	30	6.8	0.93	191	0	0	21	35	23	8	14
PUDDLED UNIT	1	11	1.0	0.20	11	0	10	20	30	30	0	10
RAPID/BEDROCK	1	38	5.0	0.25	190	0	0	15	10	25	5	45
RAPID/BOULDERS	9	258	4.3	0.19	1,179	0	0	9	38	37	6	10
RIFFLE	8	346	4.3	0.18	1,473	0	0	14	45	40	2	0
STEP/BEDROCK	5	21	3.7	0.16	80	0	0	2	4	6	2	86
STEP/BOULDERS	1	4	4.0	0.30	16	0	0	9	9	27	55	0
STEP/COBBLE	2	11	2.7	0.33	24	0	10	3	35	50	3	0
STEP/LOG	2	1	8.0	0.08	10	0	0	35	30	10	15	10
Total:	57	1,067	4.2	0.34	4,746	0	Avg: 1	17	30	28	7	17

HABITAT SUMMARY								
Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	3	18	1.5	0.33	27	0.58%	0	0.0
Scour Pools	16	155	4.9	0.69	735	15.48%	0	0.0
Glides	1	14	3.1	0.25	43	0.90%	0	0.0
Riffles	8	346	4.3	0.18	1,473	31.04%	0	0.0
Rapids	10	296	4.4	0.20	1,369	28.84%	0	0.0
Cascades	8	191	4.1	0.21	958	20.18%	0	0.0
Step/Falls	10	37	4.4	0.19	130	2.75%	0	0.0
Dry	1	11	1.0	0.20	11	0.23%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

POOL SUMMARY			
	Total	Total of all Channel Lengths # / Km	Primary Channel Length # / Km
All Pools:	19	17.8	19.8
Pools >=1m deep:	3	2.8	3.1
Complex pools (LWD pieces>=3):	3	2.8	3.1
Pool frequency (channel widths/pool):	6.8		
Residual pool depth (avg):	0.46		

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: 1-NC SITE ID: 273 CRUISER CREEK TRIBUTARY (POST)

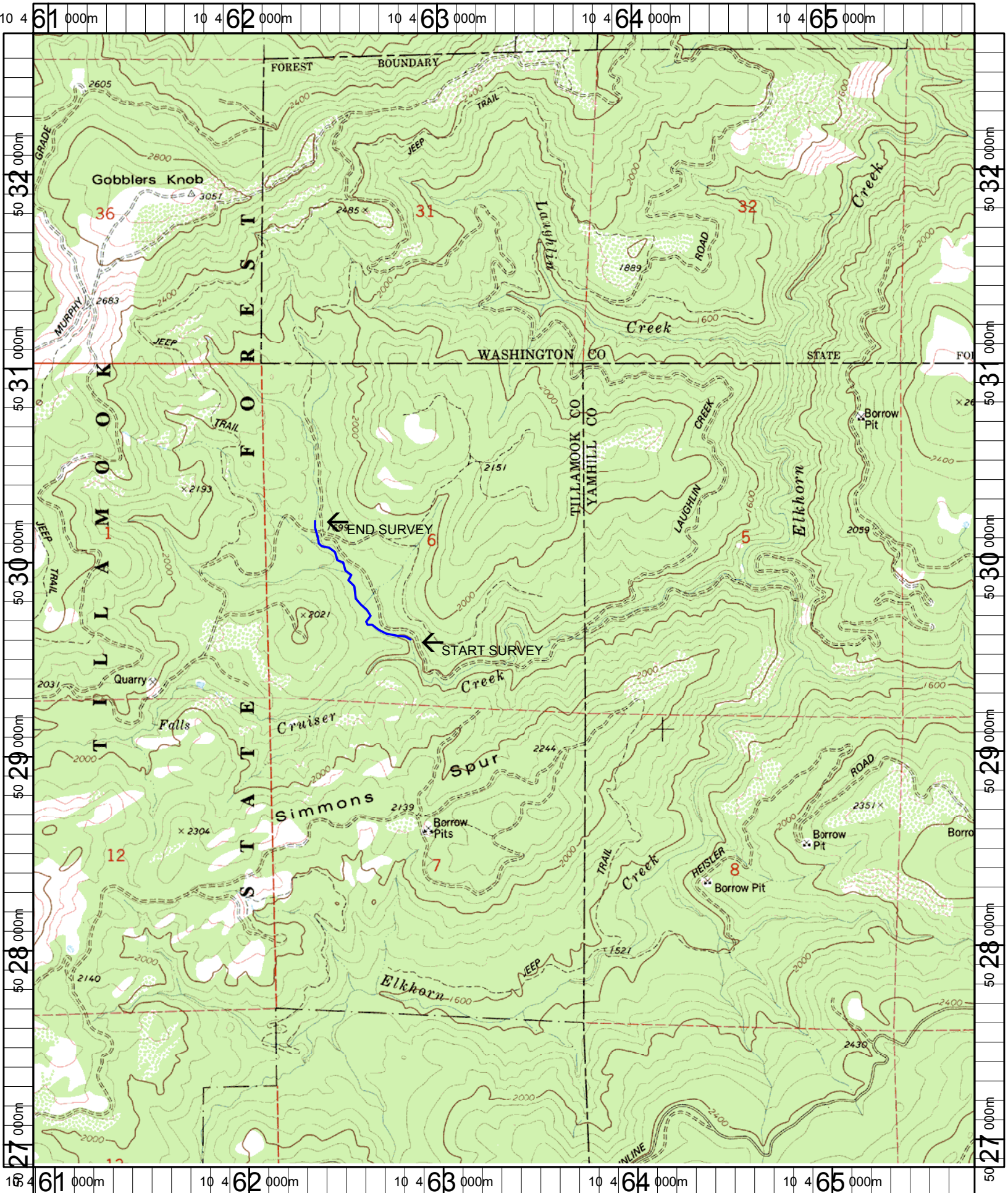
UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTE ESTIMATOR	NOTE NUMERATOR
1	CB	00	24	/LS	Ch, SV, D30, G, Lt, ST	
7	SR	00	133.6		H= 0.9m	
12	SL	00	217.6		H= 0.7m	
13	RB	01	275.6	HS	13 logs + 4 blds.US,MT,M30,D15	
14	RI	02	275.6	HS	7 logs	
15	RI	00	308.7	hs	7 logs + 1 boulder	
17	RB	00	333.7	HS	9 logs	
19	RI	01	401.5	HS	20 logs + 8 boulders	
22	RI	01	456.5	/TJ		
23	CB	11	456.5		ACW = 1.5	
25	LP	00	471.1		Trout redd?	
28	RI	00	524		CH,MV,D15,M30,LT,ST	
32	SR	00	547.9		H= 0.5 M	
34	PD	02	571.3	/SS		
35	RI	01	626.3	/TJ		
36	SC	11	626.3		ACW = 0.6	
37	LP	01	637.1	TJ/		
38	CB	11	637.1		ACW= 2.8, T= 6	
39	RB	00	698.1		CH,MV,D30,C30,LT,YT	
51	RB	01	876.2	TJ/		
52	CB	02	876.2		ACW = 4.1M, T= 6	

Comment Summary

Restoration Monitoring Sites 2006

MONITORING AREA: 1-NC SITE ID: 273 CRUISER CREEK TRIBUTARY (POST

<u>UNIT#</u>	<u>TYPE</u>	<u>CHAN</u>	<u>DIST. (m)</u>	<u>COMMENTS</u>	<u>NOTE ESTIMATOR</u>	<u>NOTE NUMERATOR</u>
54	SL	00	879.2		H= 0.5M	
56	SB	00	915.2	HS	8 BOULDERS	
57	RI	00	960.2	CC	CA,CT,D30,G,ST., H=1.7, W=3.0	



Name: GOBBLERS KNOB
 Date: 1/26/2006
 Scale: 1 inch equals 2000 feet

Location: 10 463327 E 5029792 N
 Caption: CRUISER CREEK TRIBUTARY RESTORATION SITE - TRASK BASIN